

AP[®] Calculus AB Professional Development Workshop

Sunday, June 28 – Thursday, July 2, 2015 • Bozeman High School, Bozeman, Montana



Instructor: Gary Taylor, Salt Lake City, Utah

Gary Taylor received a BS in Mathematics from Iowa State University and an MS in Mathematics from the University of Iowa. He taught for 11 years in Iowa and 30 years in Utah at Davis High School. Awards received include The *USA Today* All USA Teacher Team Second Team 2000, the Davis School District Hall of Fame/Horizon Award 2001, the Huntsman Award for Excellence in Education 2008, and the UCTM Don Clark Award 2013.

Gary taught AP[®] Calculus at Davis High School for 20 years and has been an AP[®] reader for five years. Gary has been instrumental in building one of the largest and most successful AP[®] programs in the United States.

Gary is coauthor of “The Essentials of Calculus” and “Calculus Extended.”

This institute is designed to reinforce and streamline participant’s understanding of Calculus AB topics and teaching strategies. A great deal of attention will be given to the manner in which topics are tested on the AP[®] exam and how to prepare students for the AP[®] experience.

A TI 84 graphing calculator will be used; each participant will need to bring his/her own.

AP[®] Calculus AB Agenda

- Introductions.
- Building a more successful AP[®] program.
- Access and equity (student selection and recruitment).
- Pre-AP[®] course alignment.
- Test prep strategies.
- Calculus topics.
- Limits/continuity.
- Differentiation and applications.
- Differentiation rules.
- Related rates.
- Optimization.
- Derivatives of inverse functions.
- Integration and applications.
- Integration rules.
- The Fundamental Theorem of Calculus.
- Approximation methods.
- Area/volume.
- Accumulators.
- Differential equations and slope fields.
- AP[®] test review materials and strategies.
- The 2015 free response exam.

Schedule

Day/date	Time	Event	Location
Sunday June 28	6:30 – 7 p.m.	Meeting for participants who wish to earn graduate credit	Bozeman High School
	7-8 p.m.	Social hour for participants and presenters	TBA
Monday June 29	7-8 a.m.	Registration	Bozeman High School
	7:15 – 8 a.m.	Breakfast	
	8 – 11:30 a.m.	Workshop time	
	11:30 a.m. – 12:15 p.m.	Lunch	
	12:15 – 4:15 p.m.	Workshop time	
Tuesday June 30	7:15 – 8 a.m.	Breakfast	Bozeman High School
	8 – 11:30 a.m.	Workshop time	
	11:30 a.m. – 12:15 p.m.	Lunch	
	12:15 – 4:15 p.m.	Workshop time	
	4:30 – 7:30 p.m.	Group event	Downtown Bozeman
Wednesday July 1	7:15 – 8 a.m.	Breakfast	Bozeman High School
	8 – 11:30 a.m.	Workshop time	
	11:30 a.m. – 12:15 p.m.	Lunch	
	12:15 – 4:15 p.m.	Workshop time	
Thursday July 2	7:15 – 8 a.m.	Breakfast	Bozeman High School
	8 – 11:30 a.m.	Workshop time	
	11:30 a.m. – 12:15 p.m.	Lunch	
	12:15 – 4:15 p.m.	Workshop time	